

Reg. No

Name

23U328

B.Sc DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023

SEMESTER 3 : ZOOLOGY

COURSE : 19U3CRZOO3 : ANIMAL DIVERSITY – CHORDATA

(For Regular - 2022 Admission and Improvement/Supplementary - 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Name the any two members having parapsidan model of skull.
2. Name an extinct class of fishes?
3. What is the advantage of strong hind limbs in frogs?
4. Remember the phylum of sea squird and sea squirts.
5. Name the snakes having vestigial legs present near the cloaca.
6. Name the regions the rabbit cranium.
7. Name the bones of the hindlimbs.
8. How many classes in the superclass 'Pisces'?

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Which are the photoreceptors in *Petromyzon*?
10. Cynognathus are significant in the study of vertebrate evolution. Justify
11. Write a short note on Loris.
12. Explain the respiratory mechanism in frog.
13. Why are camels called ships of the desert? Give the adaptations.
14. What is the difference between venomous and poisonous animals. Give example
15. Comment on the identification features of Indian cobra.
16. List out the ecological significance of *Doliolum*.

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. What is meant by neotony? Explain the defining features present in neotenic axolotls.
18. Describe the main venomous and non-venomous snakes of Kerala.
19. Given a specific ecological scenario, can you predict how a change in habitat might impact the feeding behavior of a particular mammal species?
20. Categorise the vertebra of frog into different type with their specialities.
21. Prepare explanatory notes on the followings
1) Feathered Dinosaurs 2) Brahminy kite
22. Explain the salient features of class Chondrichthyes.

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Write an essay on the different aquatic mammals.
24. Elucidate the anatomical, physiological, and behavioral adaptations that have evolved in birds to make them highly efficient and successful fliers.
25. Discuss different types of bird migration and enlist the primary challenges facing them for a powered flight
26. Discuss the migratory behaviour found among fishes.

(12 x 2 = 24)